

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 December 2000 (14.12.2000)

PCT

(10) International Publication Number
WO 00/76234 A1

(51) International Patent Classification²: H04Q 7/30 (74) Agent: KOLSTER OY AB; Iso Roobertinkatu 23, P.O. Box 148, FIN-00121 Helsinki (FI).

(21) International Application Number: PCT/FI00/00504 (81) Designated States (*national*): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR (utility model), KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(22) International Filing Date: 6 June 2000 (06.06.2000) (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English (26) Publication Language: English

(30) Priority Data:
991297 7 June 1999 (07.06.1999) FI

(71) Applicant (*for all designated States except US*): NOKIA NETWORKS OY [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI). (72) Inventors; and

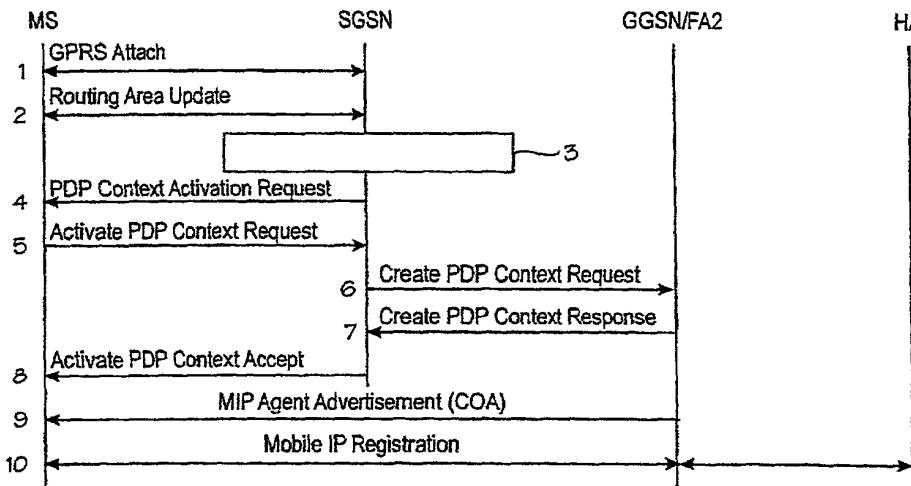
(75) Inventors/Applicants (*for US only*): SOININEN, Jonne [FI/FI]; Urheilukatu 32, FIN-00250 Helsinki (FI). MUHONEN, Ahti [FI/FI]; Holperintie 39, FIN-04680 Hirvivaara (FI).

Published:
— With international search report.

[Continued on next page]

(54) Title: SELECTION OF MOBILITY AGENT IN ACCESS NETWORK

WO 00/76234 A1



(57) Abstract: In an access network which supports macro mobility management, an access node (SGSN) checks (3) during an attach procedure of a mobile station (MS) whether the mobile has macro mobility capability, i.e. whether there is a potential need for macro mobility services. Macro mobility entity (FA2) may be any entity which provides a point of attachment on the macro mobility level, such as a mobility agent in Mobile IP type mobility management. If there is no mobility capability, a normal attach procedure is performed. However, if there is macro mobility capability, the access node (SGSN) selects a suitable mobility entity (FA2) to the mobile station (MS), sends the identity of the selected mobility entity to the mobile station and requests (8) the mobile station to initiate an activation of a packet protocol (PDP) context in the system.